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Substitute for form 1449A/PTO

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Sheet	1	of	2
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**Complete if Known**

<b>Application Number</b>	<b>Not assigned</b>
<b>Filing Date</b>	<b>July 9, 2001</b>
<b>First Named Inventor</b>	<b>RIESS et al</b>
<b>Group Art Unit</b>	<b>Not assigned</b>
<b>Examiner Name</b>	<b>Not assigned</b>
<b>Attorney Docket Number</b>	<b>11927/46101</b>

09/899843

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	Not assigned
				Filing Date	July 9, 2001
				First Named Inventor	RIESS et al
				Group Art Unit	Not assigned
				Examiner Name	Not assigned
				Attorney Docket Number	11927/46101
Sheet	2	of	2		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
KSM		Kwon et al, "A Blind Equalization with the Variable Decision Region", <i>Pers. Indoor and Mobile R. Comm.</i> , vol. 2, pp 322-326 (Sept. 1997)	
KSM		Lee et al, "A Decision-Directed Blind Equalization with the Error Variance Estimation", vol. 1, pp 99-103, <i>IEEE</i> , (Oct. 1997)	
KSM		Lee et al, "Convergence Analysis of the Stop-and-Go Blind Equalization Algorithm", <i>IEEE Trans. Comm.</i> , vol. 47, no. 2, pp 177-180, (Feb. 1999)	
KSM		Xu et al, "An Improved Decision-Directed Equalization Algorithm for MQAM Modulation", <i>Chinese Journal of Electronics</i> , vol. 9, pp 45-51 (1997)	
KSM		Xu et al, "New Decision-Directed Equalization Algorithm for QAM Communication Systems", <i>IEEE Global Telecommunications Conference 1996</i> , vol. 2, pp 1330-1334, (1996)	
KSM		Werner et al, "Blind Equalization for Broadband Access", <i>IEEE Comm.</i> , vol. 37, no. 4, pp 87-93, (April 1999)	
KSM		Lee et al, "Joint Blind Equalization with a Shell Partition-Based CMA for QAM Signal Constellations", <i>IEEE Int'l. Conference on Acoustics, Speech, and Signal Processing</i> , IEEE Computer Society Press, pp 2513-2516, (April 21-24, 1997)	
KSM		Tseng et al, "A Stop-and-Go Dual-Mode Algorithm for Blind Equalization", <i>Globecom 96</i> , vol. 2, pp 1427-1431, (November 18-22, 1996)	
KSM		Garth et al, "Blind Equalization Algorithms with Automatic Constellation Phase Recovery for Dual-Mode CAP-QAM Reception", 1999 IEEE Int'l. Conference on Communications, vol. 3, pp 1531-1536, (June 6-10, 1999)	
		Axford et al, "A Dual-Mode Algorithm for Blind Equalization of QAM Signals: CADAMA", 29th Asilomar Conference on Signals, Systems & Computers, vol. 1, pp 172-176, (October 30 - November 1, 1995)	
		Weerackody et al, "Dual-Mode Type Algorithms for Blind Equalization", <i>IEEE Transactions on Communications</i> , Vol. 42, no. 1, pp 22-28, (January 1994)	

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

## Complete if Known

Application Number	09/899,843
Filing Date	July 9, 2001
First Named Inventor	RIESS et al
Group Art Unit	2819
Examiner Name	Not assigned
Attorney Docket Number	11927/46101

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
KJW		4,227,152		Godard et al	October 7, 1980

## FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sub>3</sub>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

## OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

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KJW		Jablon, Neil K., "Joint Blind Equalization, Carrier Recovery, and Timing Recovery for High-Order QAM Signal Constellations", <i>IEEE Transactions on Signal Processing</i> , pp. 1383-1397, Vol. 40, No. 6, June 1992	
KJW		Johnson et al, "Blind Equalization Using the Constant Modulus Criterion: A Review", <i>Proceedings of the IEEE</i> , pp. 1927-1950, Vol. 86, No. 10, October 1998	
KJW		Yang et al, "The Multimodulus Blind Equalization Algorithm", 1997 13 <sup>th</sup> Int'l Conference on Digital Signal Processing Proceedings, DSP 97", pp. DSP 97-127 through DSP 97-130, Volume 1 of 2, July 2-4, 1997, Santorini, Hellas (Greece)	
KJW		Treichler et al, "Practical Blind Demodulators for High-Order QAM Signals", <i>Proceedings of the IEEE</i> , Special Issue on Blind Systems Identification and Estimation, edited by R. Liu and L. Tong, pp. 1907-1926, Vol. 86, No. 10, October 1998	
KJW		Gertsman et al, "Symbol-by-Symbol MAP Demodulation of CPM and PSK Signals on Rayleigh Flat-Fading Channels", <i>IEEE Transactions on Communications</i> , pp. 788-799, Vol. 45, No. 7, July 1997	
KJW		Benedetto et al, "A Soft-Input Soft-Output APP Module for Iterative Decoding of Concatenated Codes", <i>IEEE Communications Letters</i> , pp. 22-24, Vol. 1, No. 1, January 1997	
KJW		Kenington, P.B., "Emerging Technologies for Software Radio", <i>Electronics Communication Engineering Journal</i> , pp. 69-83, Vol. 11, No. 2, April 1999	
KJW		Porat et al, "Blind Equalization of Digital Communication Channels Using High-Order Moments", <i>IEEE Transactions on Signal Processing</i> , Vol. 39, No. 2, February 1991	

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Signature

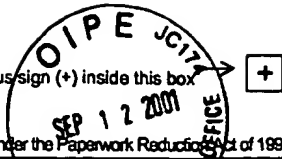
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Sheet 2 of 2

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Application Number	09/899,843
Filing Date	July 9, 2001
First Named Inventor	RIESS et al
Group Art Unit	2819
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Attorney Docket Number	11927/46101

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KAM		Bahl et al, "Optimal Decoding of Linear Codes for Minimizing Symbol Error Rate", <i>IEEE Transactions on Information Theory</i> , pp. 284-287, Vol. IT-20, No. 2, March 1974	
KAM		Sato, Yoichi, "A Method of Self-Recovering Equalization for Multilevel Amplitude-Modulation Systems", <i>IEEE Transactions on Communications</i> , Vol. COM-23, No. 6, June 1975	
KAM		Viterbi et al, <i>Principals of Digital Communication and Coding</i> , Chapter 2, pp. 47-127, McGraw-Hill Book Company, 1979	
KAM		Proakis, John G., <i>Digital Communications</i> , Chapters 5, 6, 10, 11, Third Edition, McGraw-Hill, Inc., 1983	

Examiner Signature	<i>K. Shane</i>	Date Considered	3/9/05
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KMP		Godard, Dominique N., "Self-Recovering Equalization and Carrier Tracking in Two-Dimensional Data Communication Systems", <i>IEEE Transactions on Communications</i> , Vol. Com-28, No. 11, pp. 1867-1875, November 1980	


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		Number	Kind Code <sup>2</sup> (if known)		
KJW		5,818,876		Love	10/06/98
KJW		5,887,035		Molnar	03/23/99
KJW		5,229,767		Winter et al	07/20/93
KJW		5,742,642		Fertner	04/21/98

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
KJW		EP	0 625 829	A2	AT&T Corp.	11/23/84	
KJW		EP	1 024 631	A1	France Telecom /Telediffusion de France	08/02/00	

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KJW		Kong et al, "Detection of Amplitude-Phase Modulated Signals Over Frequency Nonselective Rayleigh Fading Channels with Adaptive Symbol-Aided Channel Estimation" IEEE Vehicular Technology Conference, Atlanta, Georgia, USA, IEEE, Conf. 46, April 28-May 1, 1996, ISBN 0-7803-3158-3	
KJW		Hoehner, Peter, "TCM on Frequency-Selective Fading Channels: A Comparison of Soft-Output Probabilistic Equalizers", Proceedings of the Global Telecommunications Conference and Exhibition (GLOBECOM), USA, New York, IEEE, December 2, 1990, ISBN 0-87942-632-2	
KJW		Kong et al, "Adaptive MLSE of QAM Signals over Frequency Nonselective Rayleigh Fading Channels", IEE Proceedings: Communications, Great Britain, Institution of Electrical Engineers, Vol. 145, No. 6, December 1998, ISSN 1350- 2425	
KJW		Hart et al, "Maximum-Likelihood Synchronization, Equalization, and Sequence Estimation for Unknown Time-Varying Frequency-Selective Rician Channels", IEEE Transactions on Communications, USA, IEEE Inc., New York, Vol. 46, No. 2, February 1, 1998, ISSN 0090-6778	

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